

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/666,318
Filing Date	September 18, 2003
First Named Inventor	Roger W. Phillips, et al.
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	48930-01030

Sheet 1 of 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
AS	1	US-	3,011,383	12/1961	Sylvester, et al.	
	2	US-	4,756,771	07/12/88	Brodalla, et al.	
	3	US-	4,779,898	10/25/88	Berning, et al.	
	4	US-	5,002,312	3/26/91	Phillips, et al.	
	5	US-	5,009,486	04/23/91	Dobrowolski, et al.	
	6	US-	5,084,351	01/28/92	Phillips, et al.	
	7	US-	5,171,363	12/15/92	Phillips, et al.	
	8	US-	5,364,467	11/15/94	Schmid, et al.	
	9	US-	5,648,165	07/15/97	Phillips, et al.	
	10	US-	5,650,248	07/22/97	Miekka, et al.	
	11	US-	5,763,086	06/09/98	Schmid, et al.	
	12	US-	5,858,078	01/12/99	Andes, et al.	
	13	US-	5,912,767	06/15/99	Lee	
	14	US-	5,989,626	11/23/99	Coombs, et al.	
	15	US-	6,013,370	01/11/00	Coulter, et al.	
	16	US-	6,045,230	04/04/00	Dreyer, et al.	
	17	US-	6,068,691	05/30/00	Miekka, et al.	
	18	US-	6,112,388	09/05/00	Kimoto, et al.	
	19	US-	6,168,100 B1	01/02/01	Kato, et al.	
	20	US	6,241,858 B1	06/05/01	Phillips, et al.	

FOREIGN PATENT DOCUMENTS

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AS	22	EP 0 756 945		02/05/97			<input type="checkbox"/>
AS	23	WO 00/08596		02/17/00			<input type="checkbox"/>
AS	24	WO 98/12583		03/26/98			<input type="checkbox"/>
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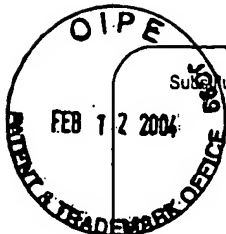
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AS	25	US-	4,066,280	01/03/78	LaCapria	
	26	US-	4,126,373	11/21/78	Moraw	
	27	US-	4,155,627	05/22/79	Gale, et al.	
	28	US-	4,168,983	09/25/79	Vittands, et al.	
	29	US-	4,930,866	06/05/90	Berning, et al.	
	30	US-	5,009,486	04/23/91	Dobrowolski, et al.	
	31	US-	5,106,125	04/21/92	Antes	
	32	US-	5,214,530	05/25/93	Coombs, et al.	
	33	US-	5,254,390	10/1993	Shih-Lai Lu	
	34	US-	5,339,737	08/23/94	Lewis, et al.	
	35	US	5,464,710	11/07/95	Yang	
	36	US-	5,549,953	08/1996	Li Li	
	37	US-	5,591,527	01/1997	Shih-Lai Lu	
	38	US-	5,700,550	12/23/97	Uyama, et al.	
	39	US-	5,856,048	01/1999	Tahara, et al.	
	40	US-	6,031,457	02/29/00	Bonkowski, et al.	
	41	US-	6,150,022	11/2000	Coulter, et al.	
	42	US-	6,157,489	12/05/00	Bradley, Jr., et al.	
	43	US-	6,242,510 B1	06/05/01	Killey	
AS	44	US-	6,243,204 B1	06/05/01	Bradley, Jr., et al.	

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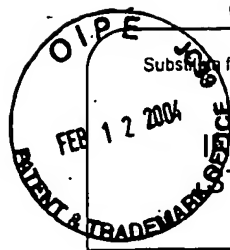
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AS	45	US-	Re.35,512	05/20/97	Nowak, et al.	
	46	US-	4,168,983	09/25/79	Vittands, et al.	
	47	US-	4,434,010	02/28/84	Ash	
	48	US-	4,705,300	11/10/87	Berning, et al.	
	49	US-	4,705,356	11/10/87	Berning, et al.	
	50	US-	4,721,217	01/26/88	Phillips, et al.	
	51	US-	4,838,648	06/13/89	Phillips, et al.	
	52	US-	5,059,245	10/22/91	Phillips, et al.	
	53	US-	5,084,351	01/28/92	Phillips, et al.	
	54	US-	5,135,812	08/04/92	Phillips, et al.	
	55	US	5,171,363	12/15/92	Phillips, et al.	
	56	US-	5,278,590	01/11/94	Phillips, et al.	
	57	US-	5,279,657	01/18/94	Phillips, et al.	
AS	58	US-	5,549,774	08/27/96	Miekka, et al.	
	59	US-	5,571,624	11/05/96	Phillips, et al.	
	60	US-	5,624,076	04/29/97	Miekka, et al.	
	61	US-	5,629,068	05/13/97	Miekka, et al.	
	62	US-	5,672,410	09/30/97	Miekka, et al.	
	63	US-	US 2003/0087070	05/08/03	Souparis	
		US-				

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Sheet 4 of 5

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	64	John M. McKiernan, et al., "Luminescence and Laser Action of Coumarin Dyes Doped in Silicate and Aluminosilicate Glasses Prepared by the Sol-Gel Technique," Journal of Inorganic and Organometallic Polymers, Vol. 1, No. 1, 1991, pages 87-103.
	65	Jeffery I. Zink, et al., "Optical Probes and Properties of Aluminosilicate Glasses Prepared By The Sol-Gel Method," Polym. Mater. Sci. Eng., pages 204-208 (1989).
	66	Don W. Tomkins, Kurz Hastings, "Transparent Overlays for Security Printing and Plastic ID Cards," Pages 1-8, November, 1997.
	67	The Mearl Corporation brochure for "Mearl-Iridescent Film," Peekskill, NY.
	68	J.A. Dobrowolski; K.M. Baird; P.D. Carman; and A. Waldorf, "Optical Interference Coatings for Inhibiting of Counterfeiting," Optica Acta, 1973, Vol. 20, No. 12, 925-937.
	69	The R.D. Mathis Company Manual for "Thin-Film-Evaporation Source Reference," Long Beach, CA.
	70	Minolta Manual for "Precise Color Communication, Color-Control-From Feeling to Instrumentation," Pages 18, 20, 22, 23, 46, 47, 48 and 49.
	71	Frans Defilet, LGZ Landis & Gyr Zug Corporation, "Kinegrams Optical Variable Devices' (OVD's) For Banknotes, Security Documents and Plastic Cards," San Diego, April 13, 1987
	72	S.P. McGrew, "Hologram Counterfeiting: Problems and Solutions," SPIE, Volume 1210 Optical Security and Anticounterfeiting Systems, 1990, Pages 66-76.
	73	Rudolf L. van Renesse, "Security Design of Valuable Documents and Products," SPIE, Vol. 2659, June 1996, Pages 10-20.
	74	Steve McGrew, "Countermeasures Against Hologram Counterfeiting," Internet site www.iea.com/nli/publications/countermeasures.htm , January 6, 2000.
	75	Roger W. Phillips, "Optically Variable Films, Pigments, and Inks," SPIE Vol. 1323, Optical Thin Films III: New Developments, 1990, Pages 98-109.
	76	Roger W. Phillips, and Anton F. Bleikolm, "Optical Coatings for Document Security," Applied Optics, Vol. 35, No. 28, October 1, 1996, Pages 5529-5534.

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Leo Bortnikar

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